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(54) COPPER-IRON-COBALT-TITANIUM ALLOY HAVING HIGH MECHANICAL AND ELECTRIC CHARACTERISTIC AND ITS PRODUCTION

(57)Abstract:
PURPOSE: To produce copper alloy having a high electric conductivity and mechanical strength by preparing a copper alloy contg. Fe, Co, Ni, O and metallic impurities under specified conditions, subjecting it to deoxidation with B, thereafter executing cold drawing and subjecting it to precipitating heat treatment at a specified temp.
CONSTITUTION: A copper alloy having a compsn. in which the ratio of Co/Fe; 0.10 to 0.90 and the ratio of Ti/(Fe+Co); 0.30 to 1 and contg., by weight, 0.030 to 2% Fe, 0.025 to 1.8% Co, 0.025 to 4% Ti, <50ppm O, metallic impurities; <1% (the content of each impurity is respectively regulated to <0.015%), and the balance Cu is pred. Next, B is introduced into the copper alloy bath to form B2O3, which is removed, by which it is deoxidized, is subjected to cold drawing and is subjected to precipitating heat treatment at a temp. lower than the temp. TM bringing the maximum electric conductivity by 80°C at the maximum. In this way, the copper alloy having mechanical strength sufficiently higher than about 500MPa and higher than about 80IACS% and good in softening performance can be obtd. at a relatively low cost.

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